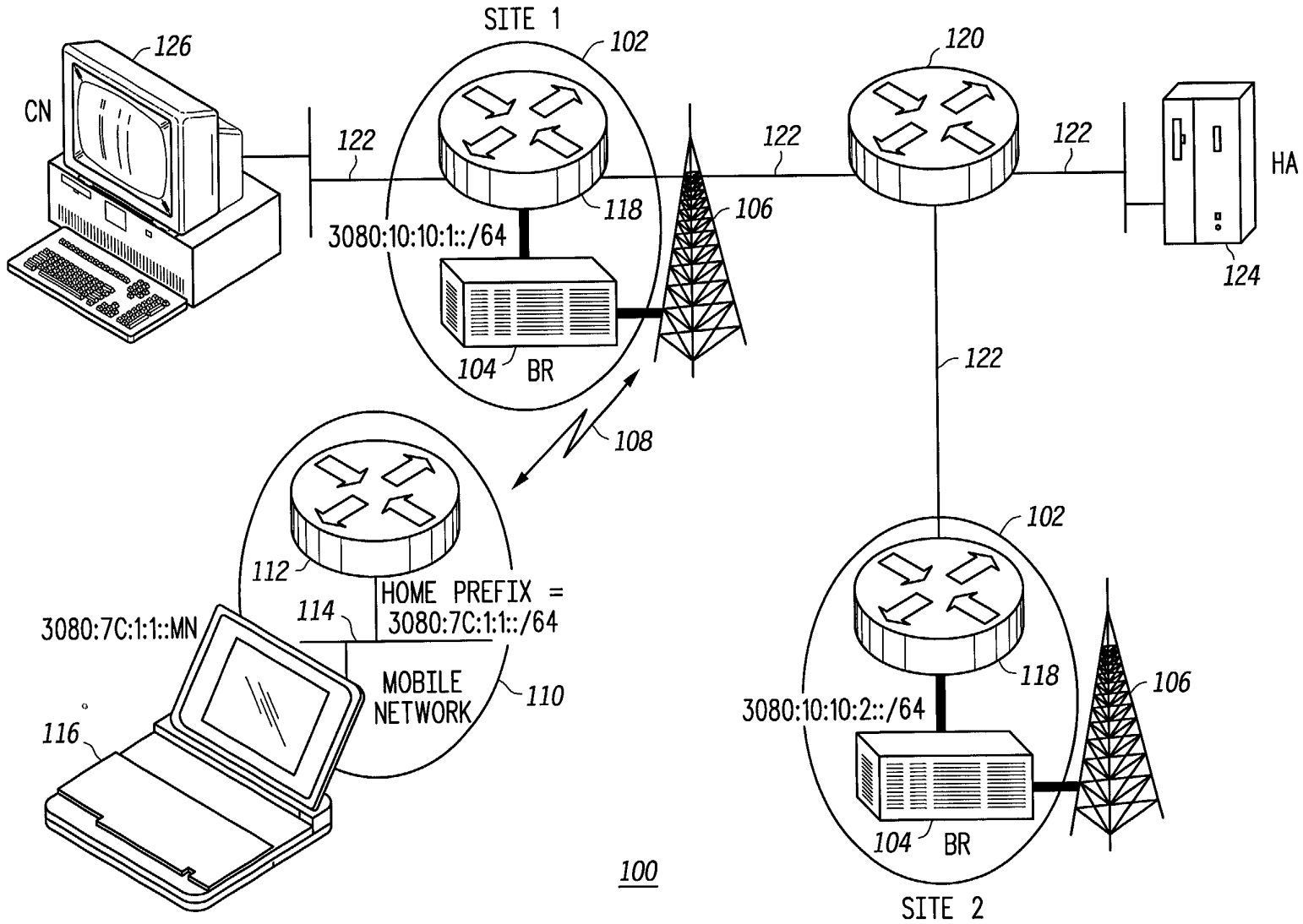
SITE 1
102
126
CN
122
120
122
122
HA
118
106
3080:10:10:1::/64
124
104
BR
122
108
102
112
HOME PREFIX =
3080:7C:1:1::/64
114
3080:7C:1:1::MN
MOBILE
NETWORK
110
118
106
116
3080:10:10:2::/64
104
BR
100
SITE 2

FIG.1

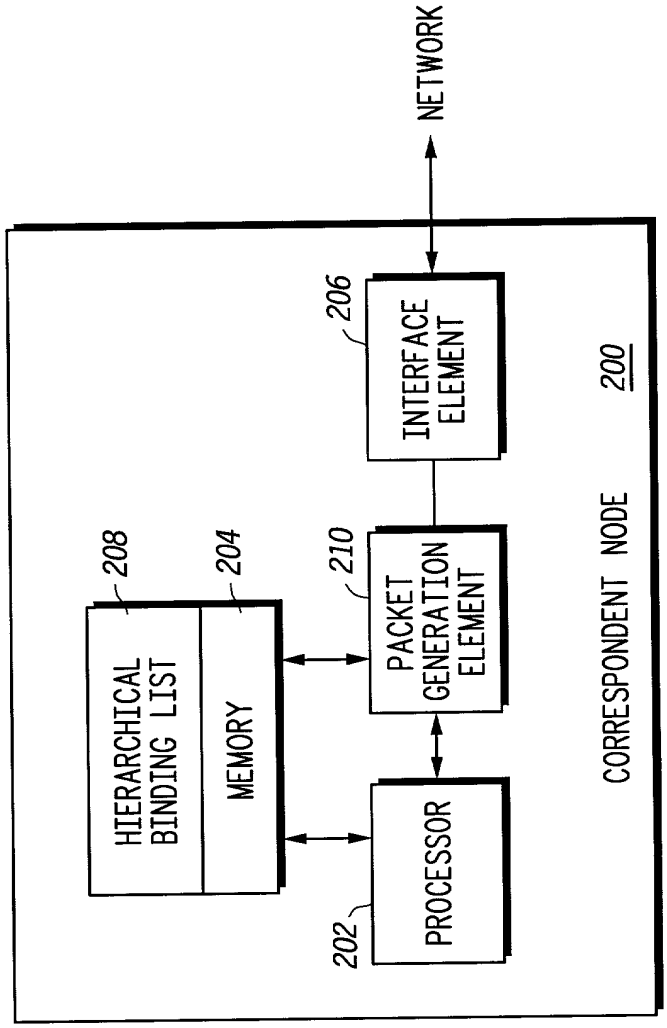
NETWORK
206
INTERFACE ELEMENT
208
204
210
HIERARCHICAL BINDING LIST
MEMORY
PACKET GENERATION ELEMENT
CORRESPONDENT NODE
200
202
PROCESSOR

FIG.2

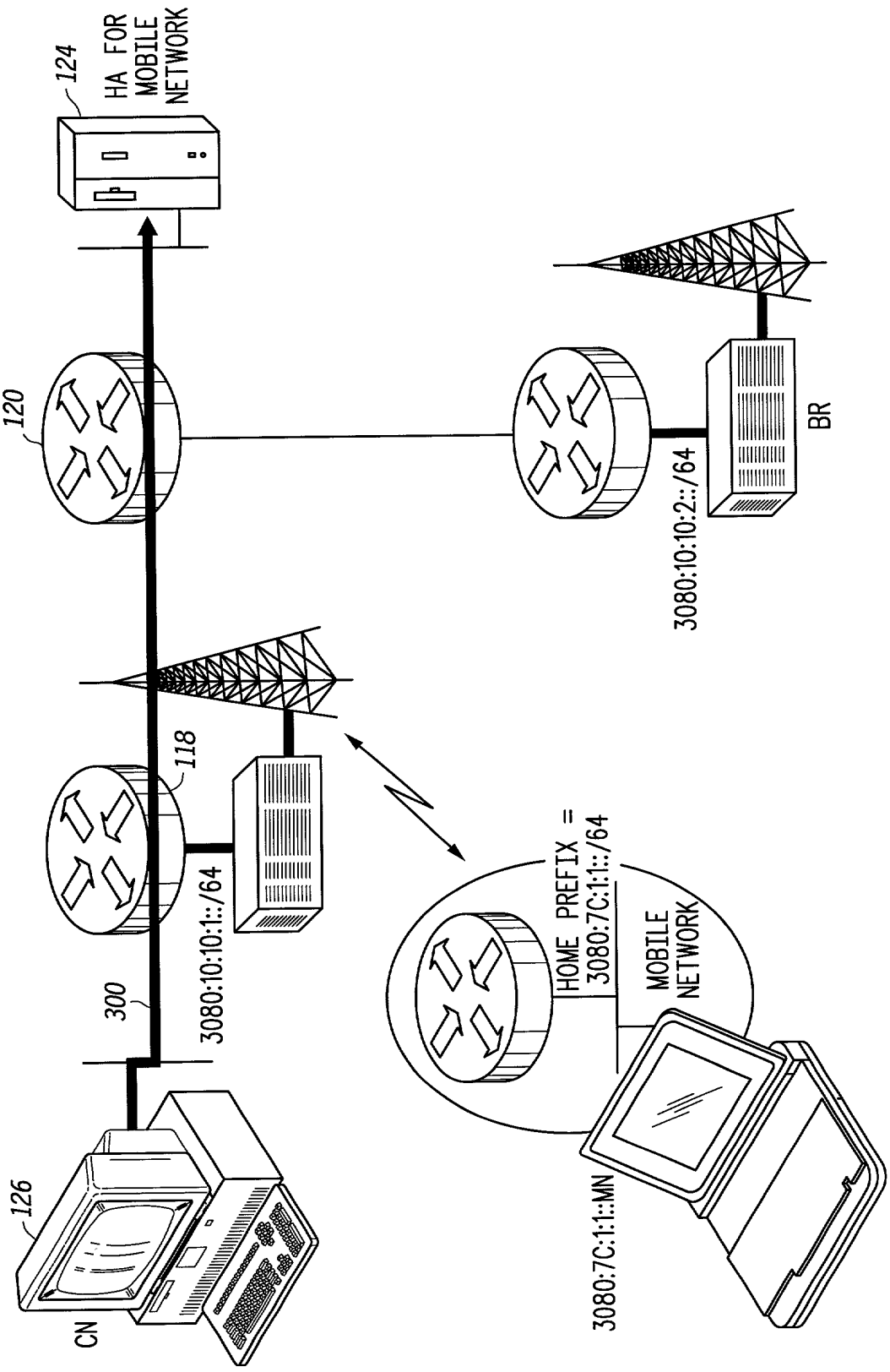
124
HA FOR MOBILE NETWORK
120
BR
3080:10:10:2::/64
118
3080:10:10:1::/64
300
HOME PREFIX = 3080:7C:1:1::/64
MOBILE NETWORK
126
CN
3080:7C:1:1::MN

FIG.3

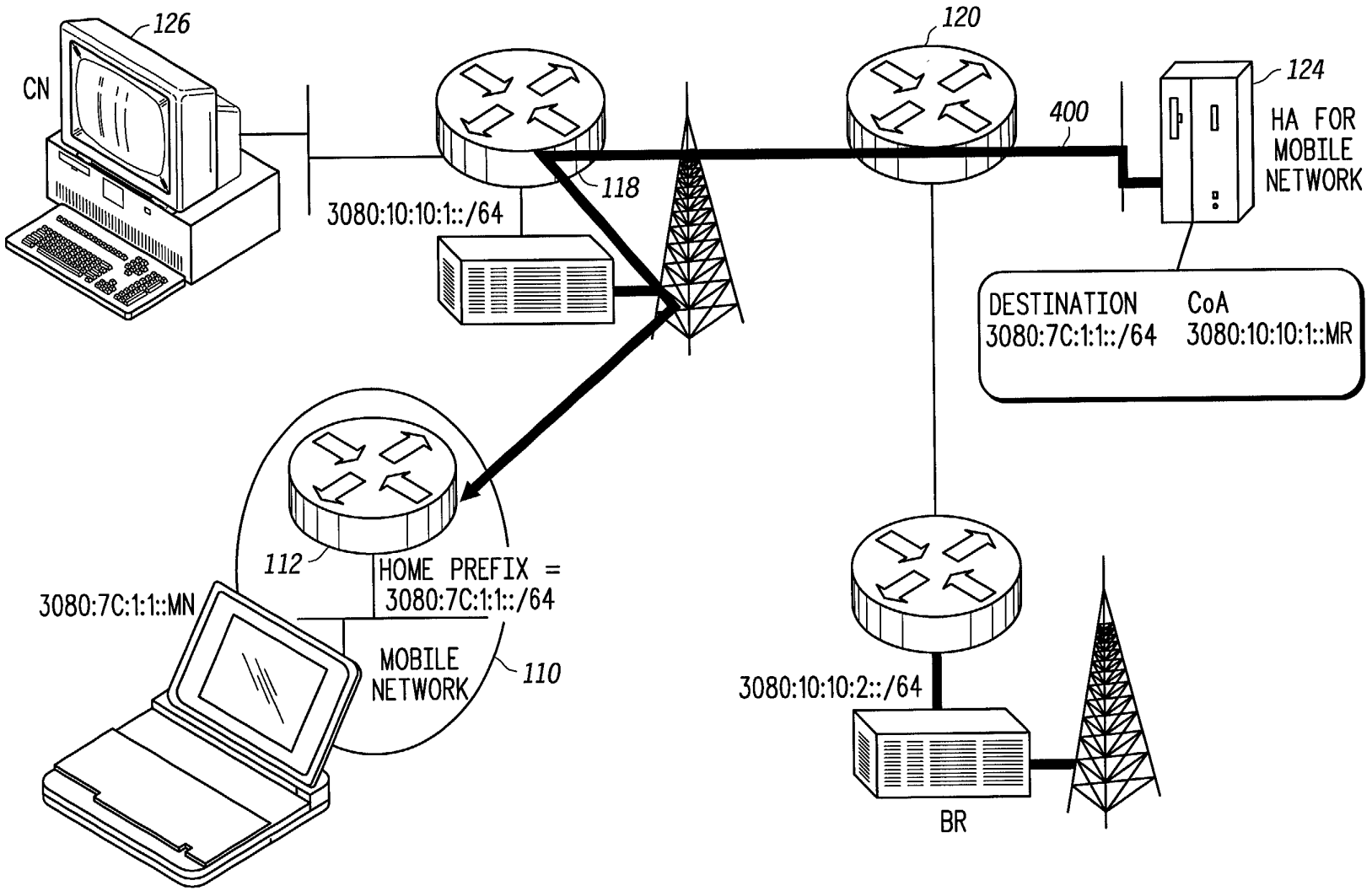
126
CN
120
124
400
HA FOR
MOBILE
NETWORK
118
3080:10:10:1::/64
DESTINATION
3080:7C:1:1::/64
CoA
3080:10:10:1::MR
112
HOME PREFIX =
3080:7C:1:1::/64
3080:7C:1:1::MN
MOBILE
NETWORK
110
3080:10:10:2::/64
BR

FIG.4

HA FOR MOBILE NETWORK
DESTINATION 3080:7C:1:1::/64
CoA 3080:10:10:1::MR
BR
3080:10:10:2::/64
118
502
3080:10:10:1::/64
112
HOME PREFIX = 3080:7C:1:1::/64
MOBILE NETWORK
110
500
126
CN
DESTINATION 3080:7C:1:1::/64
CoA 3080:10:10:1::MR
3080:7C:1:1::MN
116

FIG.5

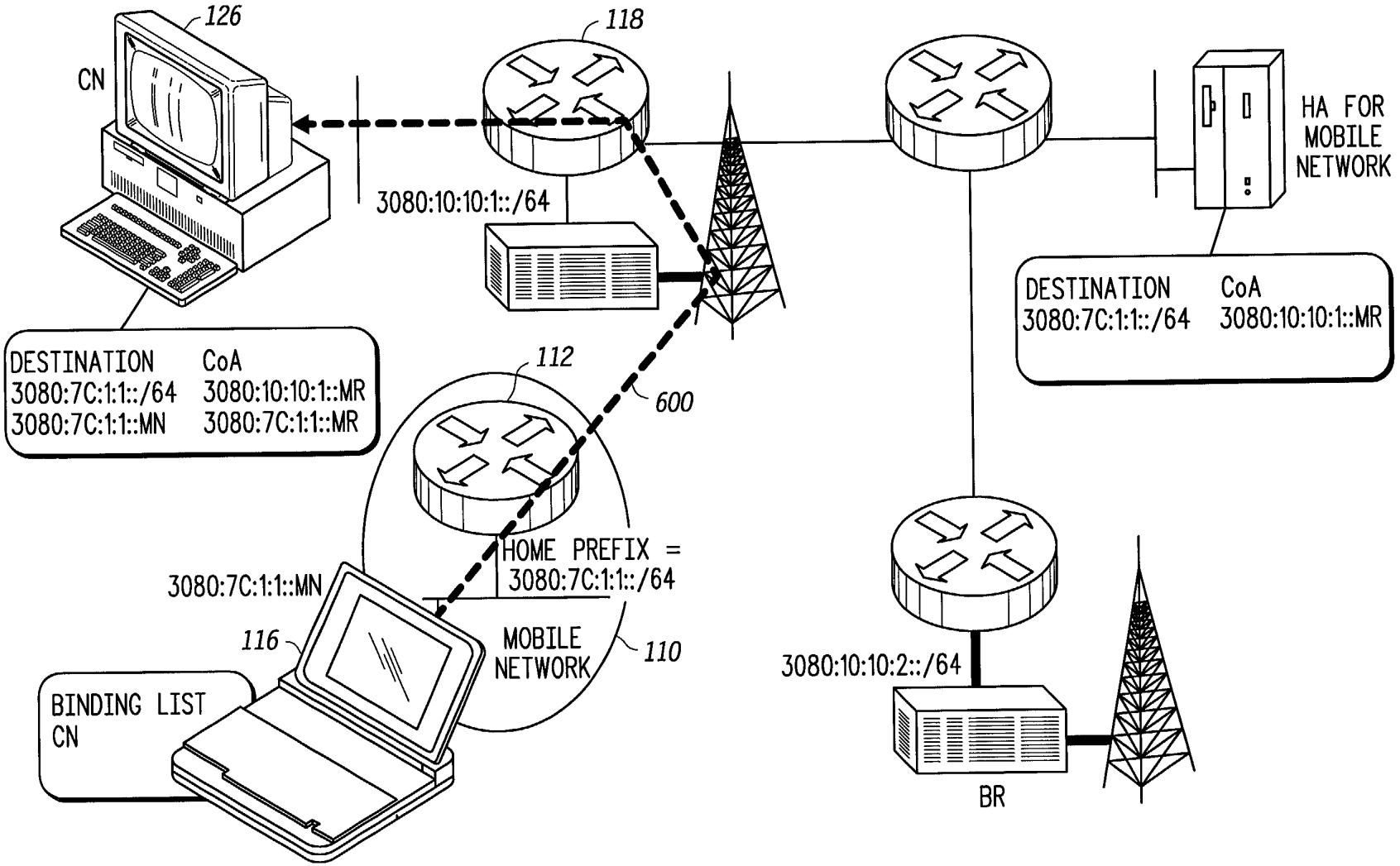
126
CN
118
3080:10:10:1::/64
HA FOR MOBILE NETWORK
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
3080:7C:1:1::MN 3080:7C:1:1::MR
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
112
600
HOME PREFIX = 3080:7C:1:1::/64
3080:7C:1:1::MN
116
MOBILE NETWORK
110
BINDING LIST
CN
3080:10:10:2::/64
BR

FIG.6

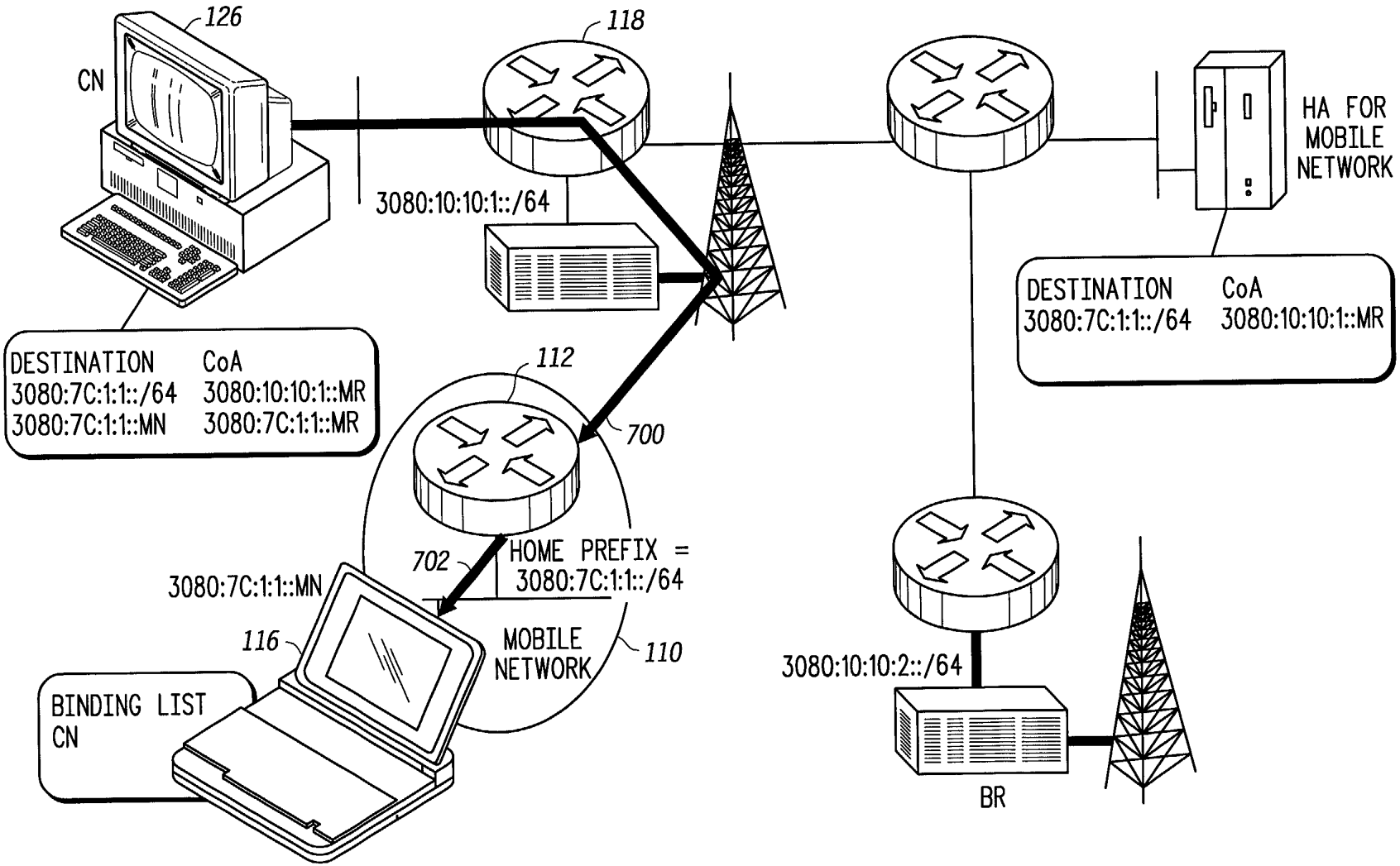
126
CN
118
3080:10:10:1::/64
HA FOR MOBILE NETWORK
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
3080:7C:1:1::MN 3080:7C:1:1::MR
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
112
700
702
HOME PREFIX = 3080:7C:1:1::/64
3080:7C:1:1::MN
116
MOBILE NETWORK
110
BINDING LIST
CN
3080:10:10:2::/64
BR

FIG. 7

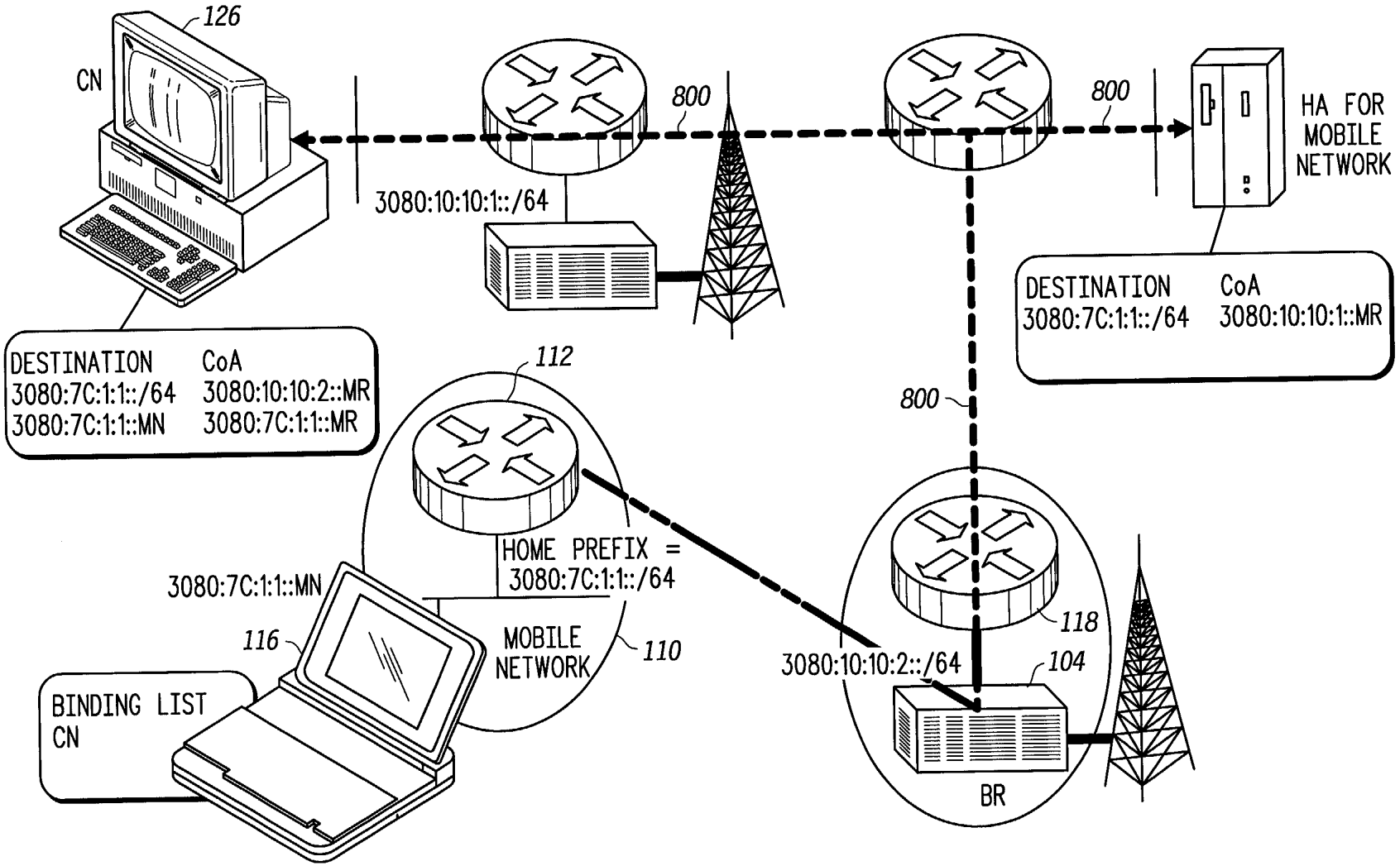
126
CN
800
800
HA FOR MOBILE NETWORK
3080:10:10:1::/64
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:2::MR
3080:7C:1:1::MN 3080:7C:1:1::MR
112
800
HOME PREFIX =
3080:7C:1:1::/64
3080:7C:1:1::MN
116
MOBILE NETWORK
110
BINDING LIST
CN
118
3080:10:10:2::/64
104
BR

FIG.8

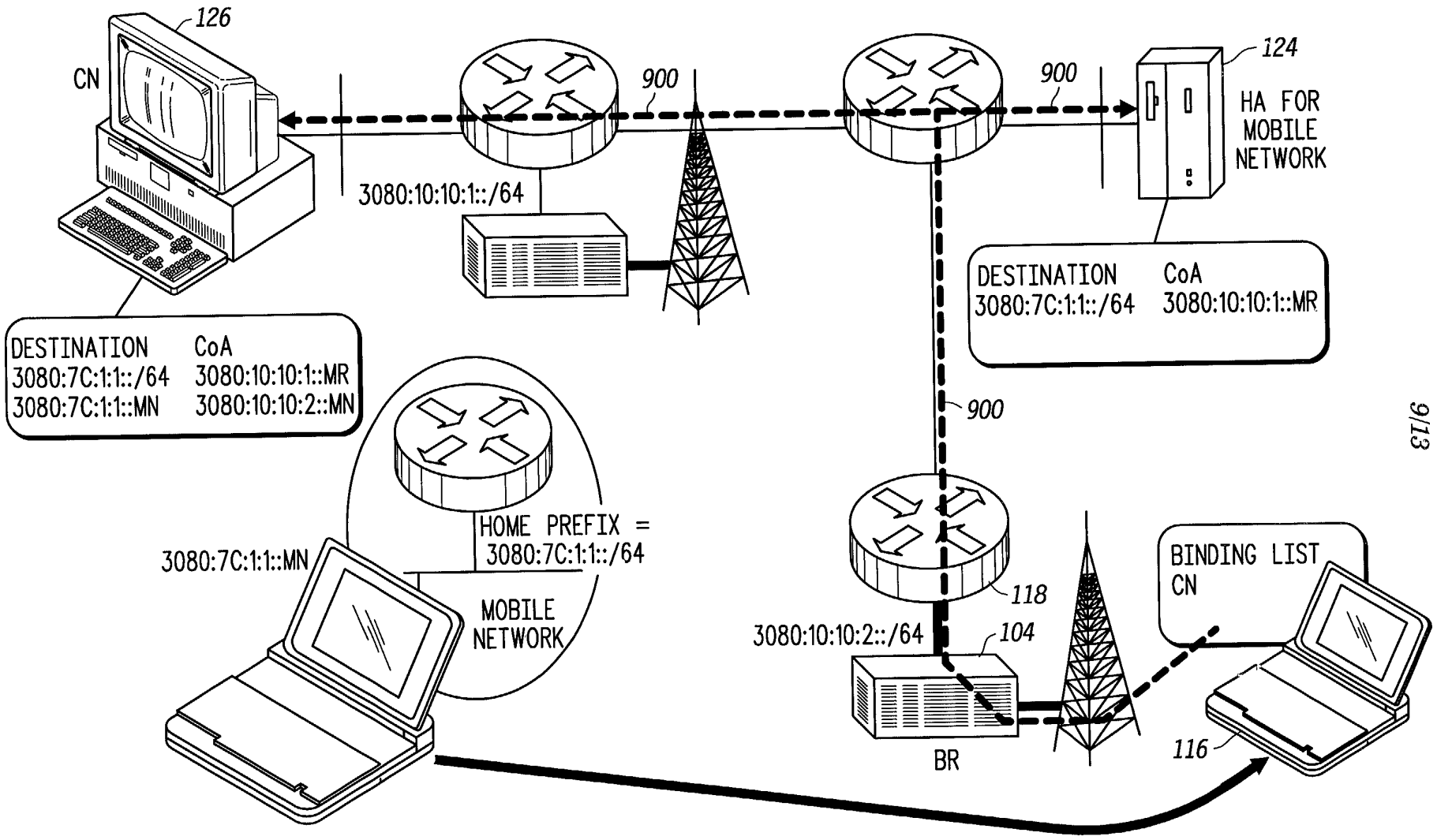
126
CN
900
900
124
HA FOR
MOBILE
NETWORK
3080:10:10:1::/64
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
3080:7C:1:1::MN 3080:10:10:2::MN
900
HOME PREFIX =
3080:7C:1:1::/64
3080:7C:1:1::MN
MOBILE
NETWORK
118
3080:10:10:2::/64
104
BINDING LIST
CN
BR
116

FIG.9

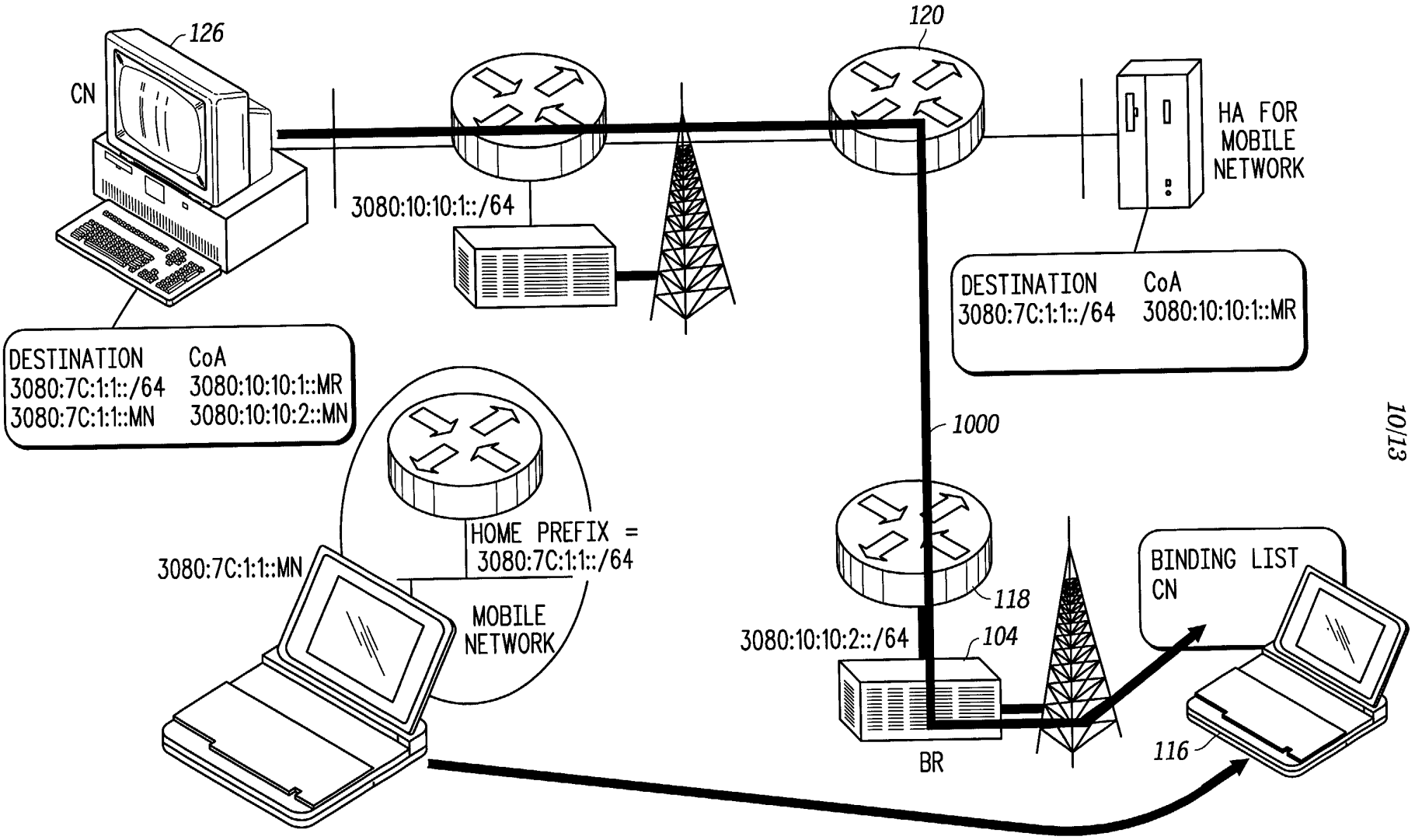
126
CN
120
HA FOR
MOBILE
NETWORK
3080:10:10:1::/64
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:1::MR
DESTINATION CoA
3080:7C:1:1::/64 3080:10:10:2::MN
1000
HOME PREFIX =
3080:7C:1:1::/64
3080:7C:1:1::MN
MOBILE
NETWORK
118
3080:10:10:2::/64
104
BINDING LIST
CN
BR
116

FIG.10

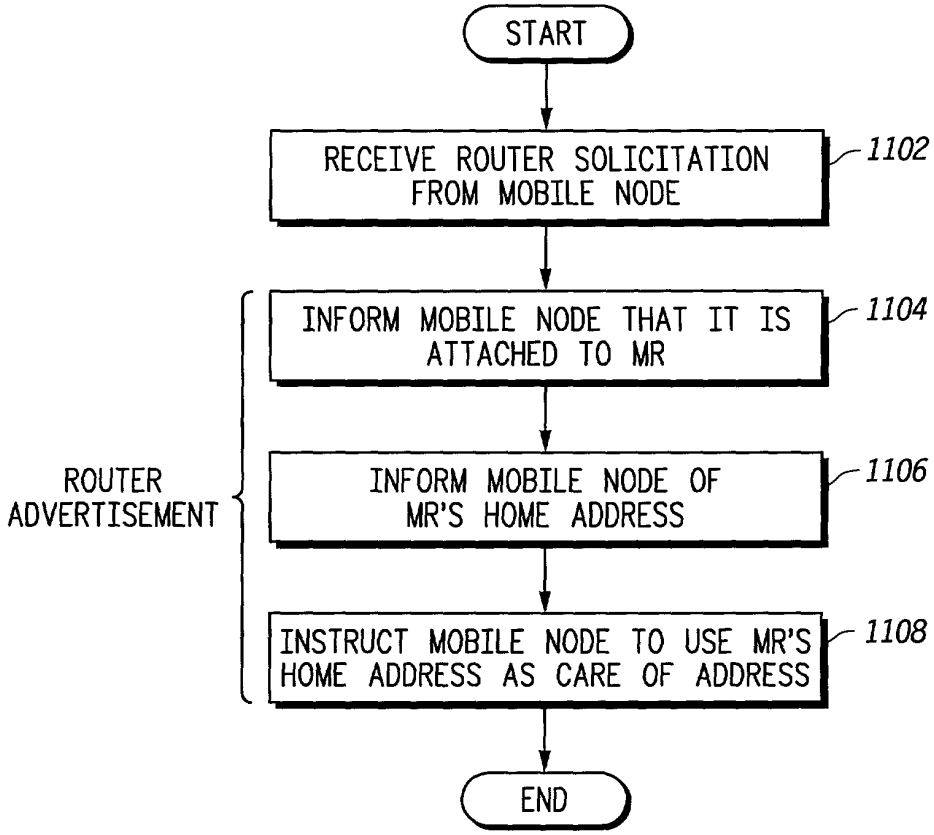

FIG.11

20220-0428007

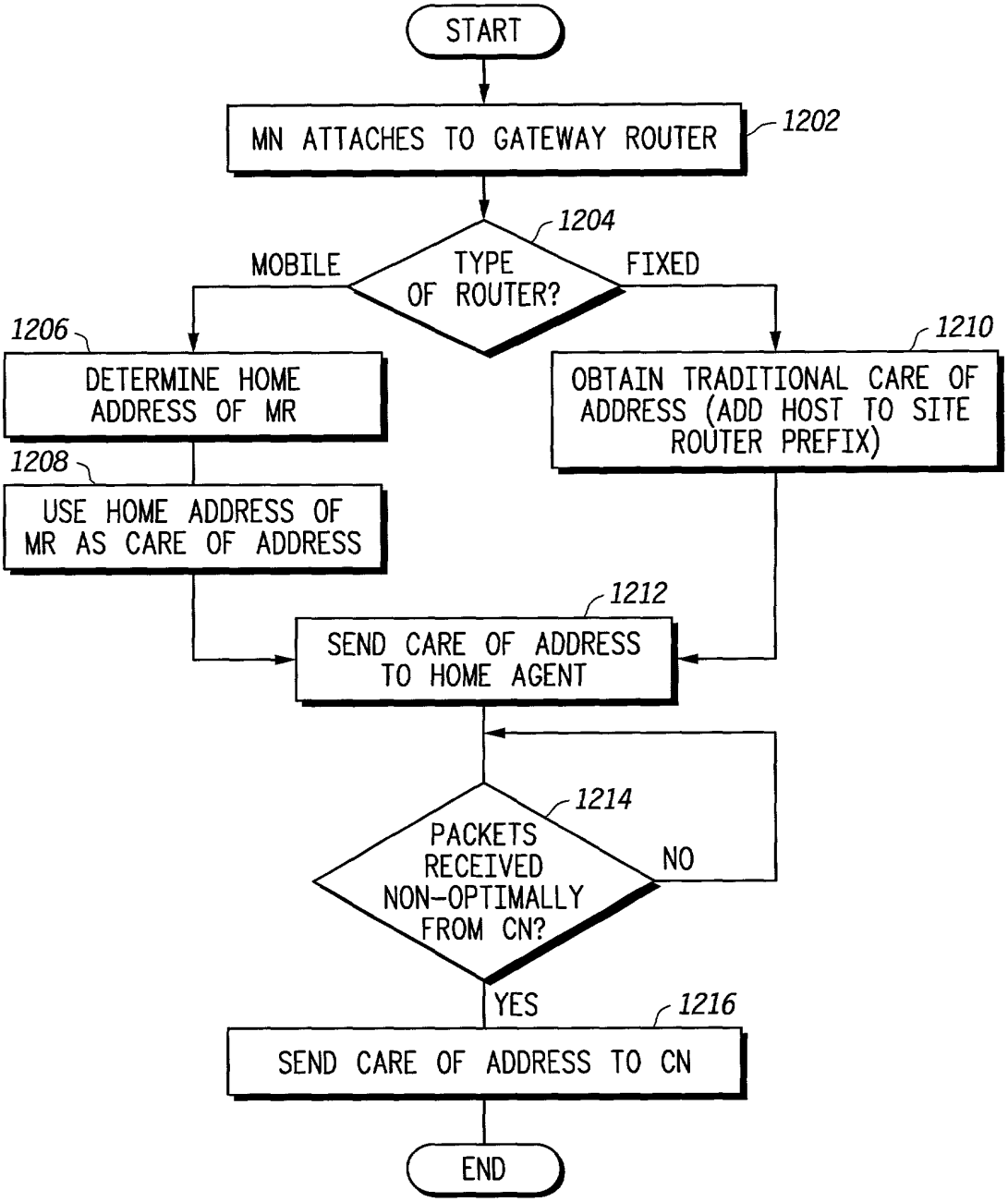

FIG.12

10023950.122702

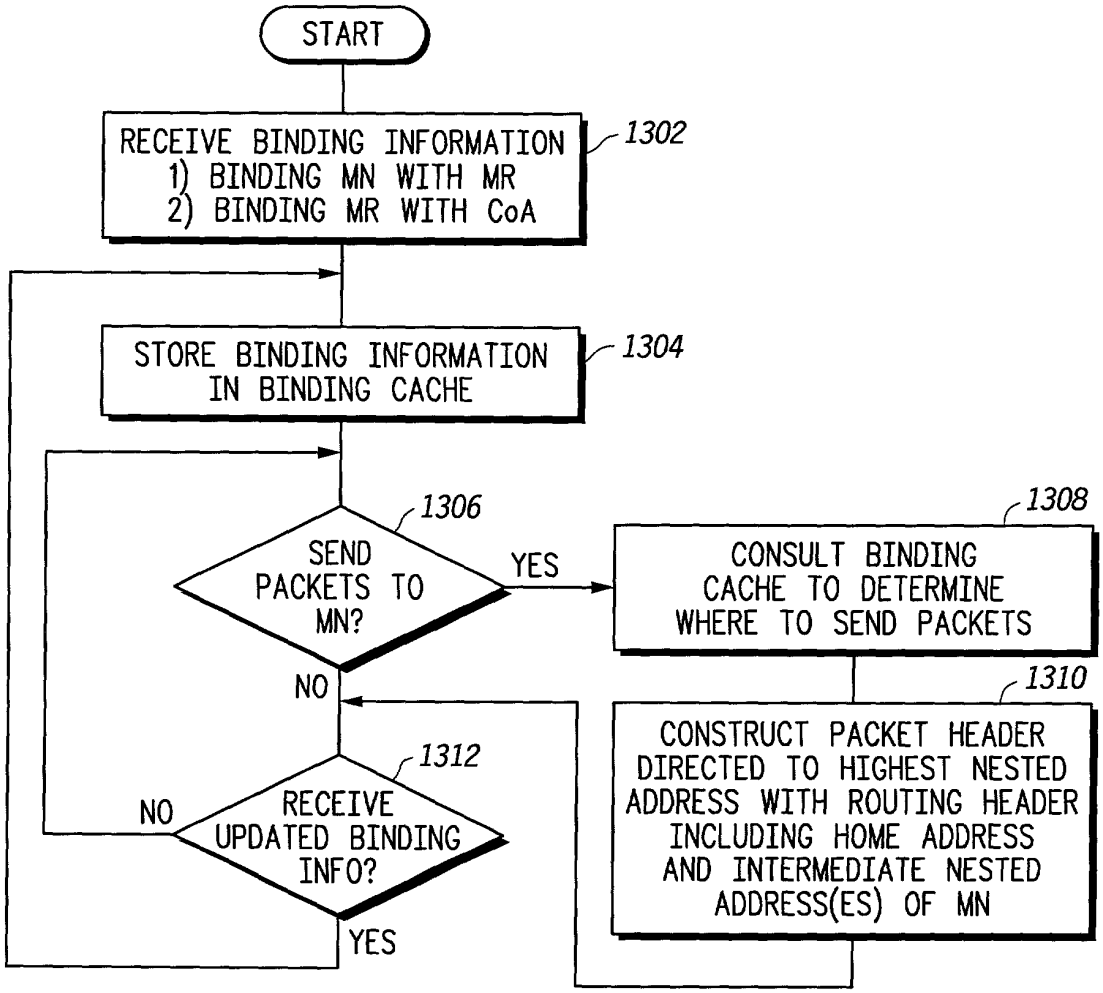
START
RECEIVE BINDING INFORMATION
1) BINDING MN WITH MR
2) BINDING MR WITH CoA
1302
STORE BINDING INFORMATION
IN BINDING CACHE
1304
1306
SEND
PACKETS TO
MN?
YES
1308
CONSULT BINDING
CACHE TO DETERMINE
WHERE TO SEND PACKETS
NO
1310
CONSTRUCT PACKET HEADER
DIRECTED TO HIGHEST NESTED
ADDRESS WITH ROUTING HEADER
INCLUDING HOME ADDRESS
AND INTERMEDIATE NESTED
ADDRESS(ES) OF MN
1312
NO
RECEIVE
UPDATED BINDING
INFO?
YES

FIG.13

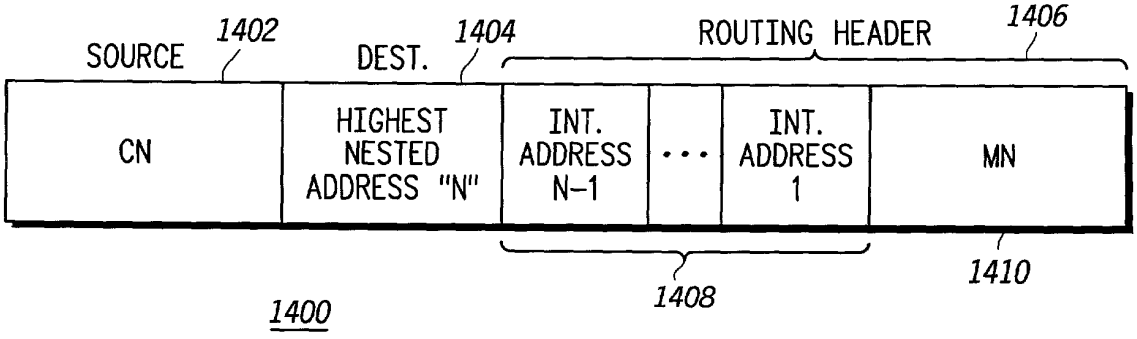
SOURCE
1402
DEST.
1404
ROUTING HEADER
1406
CN
HIGHEST
NESTED
ADDRESS "N"
INT.
ADDRESS
N-1
• • •
INT.
ADDRESS
1
MN
1408
1410
1400

FIG.14